

Work Order ID 162596

162596

Page 1

Monday, June 05, 2017 9:42:31 AM

Item ID: D412-704-041

Accept

N900040100

Setup Start *NS1*

Revision ID:

Stop *NS2*

Item Name: Pedal Assembly

Start Date: 6/14/2017 Start Qty: 1.00 *1*

Cust Item ID:

Required Date: 6/21/2017 Req'd Qty: 1.00 *1*

Customer:

Reference: DAS

21

Approvals: Process Plan: 9-89 Date: JUN 07 2017 Tooling: Date:

Run Start *NR1*

QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D412-704-041	Rev B

100	Small Fab	0.00
100	Memo	0.36
Small Fab	Assemble pedal as per Dwg D412-704-041	
Small Fab	Tighten & Torque Bolts as per Dwg D412-704-041	

1 19 JUN 20 2017 DAS 19 9-89

110	QC5- Inspect part completeness to step on W/O	0.00
110	Memo	0.02
QC		
Quality Control		

1 38 JUN 20 2017 DAS 38 9-89

120	Pick Kit	0.00
120	Memo	0.00
Packaging		
Packaging		

1 6 JUN 21 2017 DAS 6 9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____	DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐	AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐			
Date : _____	Step #: _____	QTY Effective : _____		MRB (QSI042) Approval	
Description Work Order Deviation		Disposition		Completed By	
				Lead hand / Supervisor Approval Verification	
				QC / QA Coordinator Approval	
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Misabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐			
OTHER : ☐					

162596

Page 2

Accept

N900040100

Setup Start *NS1*

Stop *NS2*

Start Date: 6/14/2017 **Start Qty:** 1.00 ***1***

Cust Item ID:

Required Date: 6/21/2017 **Req'd Qty:** 1.00 *** 1 ***

Customer:

Reference:

Approvals: **Process Plan:** _____ **Date:** _____ **Tooling:** _____ **Date:** _____

Run Start *NR1*

QC: _____ Date: _____ SPC (Y/N): _____ Date: _____

Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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130 QC4- 100% Inspect kits for completeness

0.00

130

QC	Memo	0.03
----	------	------

Quality Control

DAS
28
9-89

~~JUN 21 2011~~

140 Identify as per dwg & Stock Location: St-229B 0.00

0.00

140

Packaging	Memo	0.01
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Packaging

1

JUN 21 2017

DAS
6
9-81

150	QC21- Final Inspection - Work Order Release	0.00
-----	---	------

0.00

150

QC	Memo	0.10
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Quality Control

17/6/21 JH

DAS
21
9-89

JUN 21 2017

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY			
Environment	☐	No Re-verification	☐	Pressure/Forced	☐	Temperature/Cure	☐
Design	☐	Operator	☐	Bending	☐	Set-up	☐
Doc/Data	☐	Offset/Setup	☐	Centre Not Concentric	☐	BOM/Route	☐
Equip/Tooling	☐	Supplier	☐	Cracks	☐	Broken/Damage/Defect	☐
Handling/Pre	☐	Training	☐	Crimp/Kink/Ripple/Wave	☐	Inspection Incomplete/Unqualified	☐
Material	☐	Use for Testing	☐	Cuffs	☐	Contamination	☐
Internal Transport	☐	Poor Information	☐	Crushing	☐	Countersink	☐
Tribal Knowledge	☐	Rushing	☐	Heat Treat	☐	Cut Too Short	☐
LOA	☐	Product Improvement	☐	Wave/Twist in Tube	☐	Instructions Incomplete/Unclear	☐
Substation	☐	Process Improvement	☐	Marks/Chatter	☐	Drill Holes	☐
Past Expiry Date	☐	Manufacturing Process	☐	OTHER : ☐			
Misidentified	☐	Past Due	☐				

Picklist Print

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Page 1

Work Order ID: 162596

162596

Parent Item: D412-704-041

D412-704-041

Parent Item Name: Pedal Assembly

Start Date: 6/14/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:B05.01.28Removed hardware on Step 2; Added Figures 1-3KJ/RF
IPP Rev:C06.03.08 Re-format EC
IPP Rev:D 07-03-20 Added Dwg D412-704-041 07-03-20 JLM
IPP Rev:E 07.05.02 Reformat EC
IPP Rev:F 08-10-08 as per revB DD veriified by:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
AN3-10A		Purchased	No			100	Each	213.0000	1	1		JUN 14 2017	
AN3-10A									**		DAS 6 9-89		
Bolt													
				<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>							
				GA	59								
				m136787	59								
				over003	100								
				m137321	0								
				m137544	100								
				ST349	54								
				m137321	54								
AN315-4R		Purchased	No			100	Each	80.0000	1	1		JUN 14 2017	
AN315-4R									**		DAS 6 9-89		
Nut													
				<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>							
				ST331	80								
				M128978	80								
AN3-6A		Purchased	No			120	Each	193.0000	2	2		JUN 21 2017	
AN3-6A									**		DAS 6 9-89		
Bolt													
				<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>							
				ST350	193								
				m137412	193								

DAS
28
9-89

2

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

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Work Order ID: 162596

162596

Parent Item: D412-704-041

D412-704-041

Parent Item Name: Pedal Assembly

Start Date: 6/14/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

AN4-10A	Purchased	No	100	Each	151.0000	1	1	
AN4-10A						**		DAS
Bolt								6
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
over003	125	
M137412	125	
ST345	26	
M134762	26	

AN4-12A	Purchased	No	100	Each	124.0000	2	2	
AN4-12A						**		DAS
Bolt								6
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FG	10	
120423	10	
ST344	114	
m137412	114	

AN4-13A	Purchased	No	100	Each	358.0000	1	1	
AN4-13A						**		DAS
Bolt								6
								9-89

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FG	20	
122808	20	
GA	70	
m134634	19	
m135470	51	
over003	100	
m137680	100	
ST344	168	
m137544	168	

DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					

Root Cause				FAULT CATEGORY							
Environment ☐		No Re-verification ☐		Pressure/Forced ☐		Temperature/Cure ☐		Power Loss/Surge ☐		Positioned Wrong ☐	
Design ☐		Operator ☐		Bending ☐		Set-up ☐		Folio/Program ☐		Outside Dimensions ☐	
Doc/Data ☐		Offset/Setup ☐		Centre Not Concentric ☐		BOM/Route ☐		Grain ☐		Over/Under tolerance ☐	
Equip/Tooling ☐		Supplier ☐		Cracks ☐		Broken/Damage/Defect ☐		Weld ☐		Part Incorrect ☐	
Handling/Pre ☐		Training ☐		Crimp/Kink/Ripple/Wave ☐		Inspection Incomplete/Unqualified ☐		Wrong Stock Pulled ☐		Part Lost/Missing ☐	
Material ☐		Use for Testing ☐		Cuffs ☐		Contamination ☐		Out of Sequence ☐		Part Moved ☐	
Internal Transport ☐		Poor Information ☐		Crushing ☐		Countersink ☐		Off-set ☐		Drawing ☐	
Tribal Knowledge ☐		Rushing ☐		Heat Treat ☐		Cut Too Short ☐		Mislabeled ☐		Finish ☐	
LOA ☐		Product Improvement ☐		Wave/Twist in Tube ☐		Instructions Incomplete/Unclear ☐		Fit/Function ☐		Misread ☐	
Substation ☐		Process Improvement ☐		Marks/Chatter ☐		Drill Holes ☐		Misaligned/off center ☐		Turning Sequence ☐	
Past Expiry Date ☐		Manufacturing Process ☐		OTHER : _____							
Misidentified ☐		Past Due ☐									

Picklist Print

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Work Order ID: 162596

162596

Parent Item: D412-704-041

D412-704-041

Parent Item Name: Pedal Assembly

Start Date: 6/14/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

D3204-041	Manufactured	No	100	Each	3.0000	1	1	DAS
D3204-041								19
Release Pedal Assembly								9-89
							JUN 20 2017	

LocationLoc QtyLoc Code

GA

3

159456

1

160588

2

D3205-1	Manufactured	No	100	Each	3.0000	1	1	DAS
D3205-1								19
Pedal Bracket								9-89
							JUN 20 2017	

LocationLoc QtyLoc Code

GA

3

155538

3

D3205-3	Manufactured	No	100	Each	4.0000	1	1	DAS
D3205-3								19
Back Plate								9-89
							JUN 20 2017	

LocationLoc QtyLoc Code

GA

4

158017

4

D3206-1	Manufactured	No	100	Each	4.0000	1	1	DAS
D3206-1								19
Pedal Arm								9-89
							JUN 20 2017	

LocationLoc QtyLoc Code

GA

4

157984

4

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Shop Packet Print

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DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Picklist Print

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Work Order ID: 162596

162596

Parent Item: D412-704-041

D412-704-041

Parent Item Name: Pedal Assembly

Start Date: 6/14/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

D3209-041	Manufactured	No	100	Each	5.0000	1	1	DAS
D3209-041								19
Bracket Assembly								9-89
						**	JUN 20 2017	

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
GA	5	
147915	3	
138811	2	

D4610-5	Manufactured	No	100	Each	11.0000	1	1	DAS
D4610-5								19
Shim								9-89
						**	JUN 20 2017	

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
GA	11	
161974	11	

MS21042L3	Purchased	No	100	Each	2,025.000	1	1	DAS
MS21042L3								19
Nut								9-89
						**	JUN 14 2017	

<u>Location</u>	<u>Loc Qty</u>	<u>Loc Code</u>
FP001	79	
m135945	79	
GA	434	
m134360	102	
M136665	332	
OVER007	1000	
m134360	0	
m137680	1000	
ST303	512	
m137321	4	
m137495	508	

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date : _____		Step #: _____		QTY Effective : _____			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause Environment ☐ Design ☐ Doc/Data ☐ Equip/Tooling ☐ Handling/Pre ☐ Material ☐ Internal Transport ☐ Tribal Knowledge ☐ LOA ☐ Substation ☐ Past Expiry Date ☐ Misidentified ☐ No Re-verification ☐ Operator ☐ Offset/Setup ☐ Supplier ☐ Training ☐ Use for Testing ☐ Poor Information ☐ Rushing ☐ Product Improvement ☐ Process Improvement ☐ Manufacturing Process ☐ Past Due ☐		FAULT CATEGORY Pressure/Forced ☐ Bending ☐ Centre Not Concentric ☐ Cracks ☐ Crimp/Kink/Ripple/Wave ☐ Cuffs ☐ Crushing ☐ Heat Treat ☐ Wave/Twist in Tube ☐ Marks/Chatter ☐ Temperature/Cure ☐ Set-up ☐ BOM/Route ☐ Broken/Damage/Defect ☐ Inspection Incomplete/Unqualified ☐ Contamination ☐ Countersink ☐ Cut Too Short ☐ Instructions Incomplete/Unclear ☐ Drill Holes ☐ Power Loss/Surge ☐ Folio/Program ☐ Grain ☐ Weld ☐ Wrong Stock Pulled ☐ Out of Sequence ☐ Off-set ☐ Mislabeled ☐ Fit/Function ☐ Misaligned/off center ☐ Positioned Wrong ☐ Outside Dimensions ☐ Over/Under tolerance ☐ Part Incorrect ☐ Part Lost/Missing ☐ Part Moved ☐ Drawing ☐ Finish ☐ Misread ☐ Turning Sequence ☐							
		☐ OTHER : _____							

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Work Order ID: 162596

162596

Parent Item: D412-704-041

D412-704-041

Parent Item Name: Pedal Assembly

Start Date: 6/14/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

120

Each

2,025.000

2

2

**

MS21042I 3

Nut

DAS
6
89

JUN 21 2017

D
2
9

Location

Loc Qty

Loc Code

FP001

79

m135945

79

GA

434

m134360

102

M136665

332

OVER007

1000

m134360

0

m137680

1000

ST303

512

m137321

4

m137495

508

MS21042L4

Purchased

No

100

Each

3,041.000

5

5

**

MS21042I 4

Nut

DAS
6
89

JUN 21 2017

Location

Loc Qty

Loc Code

FP001

10

m133363

10

GA

51

m135058

51

OVER007

2400

m137402

400

m137544

1000

m137680

1000

ST303

580

m137371

580

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DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : ☐			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

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Page 6

Work Order ID: 162596

162596

Parent Item: D412-704-041

D412-704-041

Parent Item Name: Pedal Assembly

Start Date: 6/14/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

MS24694-S102

Purchased

No

100

Each

70.0000

1

1

MS24694-S102

Screw

**

DAS
9-89

JUN 14 2017

Location

Loc Qty

Loc Code

ST283

70

124814

30

m128976

40

MS9519-10

Purchased

No

100

Each

15.0000

1

1

MS9519-10

Bolt

**

DAS
9-89

JUN 14 2017

Location

Loc Qty

Loc Code

GA

7

m133790

7

ST267

8

m129198

8

NAS1149D0332J

Purchased

No

120

Each

791.0000

4

4

NAS1149D0332.J

Washer

**

DAS
9-89

JUN 14 2017

Location

Loc Qty

Loc Code

FP

225

m136015

8

m137075

217

GA

308

m136643

308

ST264

258

m136015

0

m137412

258

DAS
28
9-89

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐																																																													
Date : _____		Step # : _____		QTY Effective : _____			MRB (QSI042) Approval																																																										
Description Work Order Deviation				Disposition				Completed By _____ Lead hand / Supervisor Approval Verification _____ QC / QA Coordinator Approval _____																																																									
Root Cause		FAULT CATEGORY																																																															
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐	Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐	Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐	Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐	Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐	Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐	Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐	Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐	LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐	Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐	Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____			
Misidentified ☐	Past Due ☐																																																																

Picklist Print

Monday, June 05, 2017 9:42:29 AM

Page 7

Work Order ID: 162596

Parent Item: D412-704-041

Parent Item Name: Pedal Assembly

162596

D412-704-041

Start Date: 6/14/2017

Required Date: 6/21/2017

Start Qty: 1.00

Required Qty: 1.00

NAS1149D0363J

Purchased

No

100

Each

1,295.000

5

5

NAS1149D0363.I

Washer

**

DAS
6
9-89
JUN 14 2017

Location

Loc Qty

Loc Code

GA

91

m134055

13

m137164

78

ST263

1204

m137587

1204

NAS1149D0416J

Purchased

No

100

Each

3,531.000

3

3

NAS1149D0416.I

WASHER

**

DAS
6
9-89
JUN 14 2017

Location

Loc Qty

Loc Code

GA

618

m131511

618

ST264

2913

m131511

2913

NAS1149D0463J

Purchased

No

100

Each

4,888.000

14

14

NAS1149D0463.I

Washer

**

DAS
6
9-89
JUN 14 2017

Location

Loc Qty

Loc Code

GA

40

M135056

40

ST260a

4000

M137371

2000

M137699

2000

ST263

848

M137544

848

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Shop Packet Print

Page 7

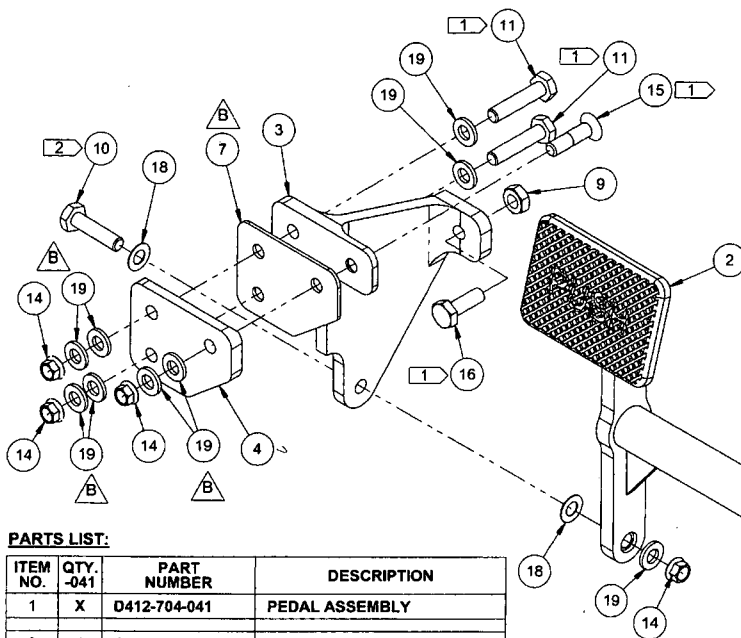
DQA: _____ Date: _____

**WORK ORDER NON-CONFORMANCE / UPDATE**

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐							
Date : _____		Step #: _____		QTY Effective : _____				MRB (QSI042) Approval			
Description Work Order Deviation				Disposition				Completed By			
								Lead hand / Supervisor Approval Verification			
								QC / QA Coordinator Approval			
Root Cause		FAULT CATEGORY									
Environment ☐	☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐					
Design ☐	☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐					
Doc/Data ☐	☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐					
Equip/Tooling ☐	☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐					
Handling/Pre ☐	☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐					
Material ☐	☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐					
Internal Transport ☐	☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐					
Tribal Knowledge ☐	☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐					
LOA ☐	☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐					
Substation ☐	☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐					
Past Expiry Date ☐	☐	Manufacturing Process ☐	OTHER : _____								
Misidentified ☐	☐	Past Due ☐									



PARTS LIST:

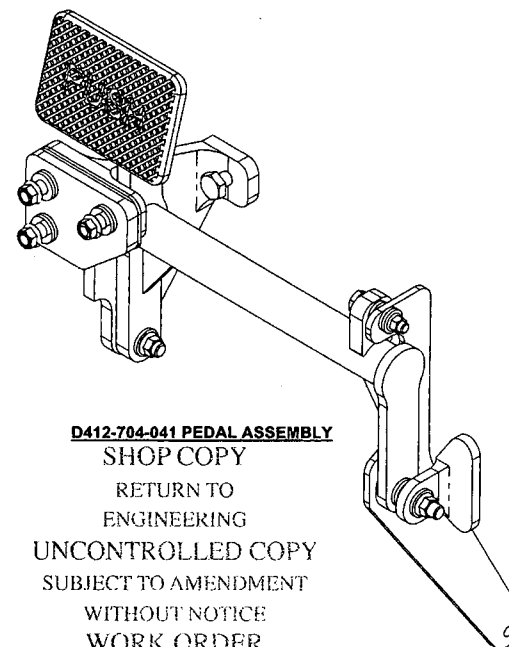
ITEM NO.	QTY. -041	PART NUMBER	DESCRIPTION
1	X	D412-704-041	PEDAL ASSEMBLY
2	1	D3204-041	PEDAL ASSEMBLY
3	1	D3205-1	PEDAL BRACKET
4	1	D3205-3	BACK PLATE
5	1	D3206-1	PEDAL ARM
6	1	D3209-041	BRACKET ASSEMBLY
7	1	D4610-5	SHIM
8	1	AN3-10A	BOLT
9	1	AN315-4R	NUT
10	1	AN4-10A	BOLT
11	2	AN4-11A	BOLT
12	1	AN4-13A	BOLT
13	1	MS21042L3	NUT (OR MS21042-3)
14	5	MS21042L4	NUT (OR MS21042-4)
15	1	MS24694-S102	SCREW
16	1	MS9519-10	BOLT
17	5	NAS1149D0363J	WASHER (OR AN960JD10)
18	3	NAS1149D0416J	WASHER (OR AN960JD416L)
19	14	NAS1149D0463J	WASHER (OR AN960JD416)
N/A *	2	AN3-6A	BOLT
N/A *	4	NAS1149D0332J	WASHER (OR AN960JD10L)
N/A *	2	MS21042L3	NUT (OR MS21042-3)

* SHIPPED LOOSE WITH -041 KIT (NOT PRE-ASSEMBLED AT DART)

EXPLODED ASSEMBLY VIEW

NOTES:

- 1) INSTALL IDENTIFIED FASTENERS LOOSE (HAND TIGHTEN ONLY).
- 2) TIGHTEN IDENTIFIED FASTENERS UNTIL SNUG. ENSURE THAT PARTS CAN STILL ROTATE.
- 3) TORQUE IDENTIFIED FASTENERS TO 15-25 in-lbs (1.7-2.8 N-m).



D412-704-041 PEDAL ASSEMBLY

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 162596 u.s.
1706-07

RELEASED
2012-03-21
PER ECN 12-545 4P

B	ADD D4610-5 (ZN D8-1); ADD WASHER (ZN A6-1, B6-1, C8-1, D8-1); AN4-11A WAS AN4-12A (ZN B6-1)	RF	12.02.24
A	NEW ISSUE	CB	07.01.23
REV.	DESCRIPTION	BY	DATE
DESIGN	CB		
DRAWN	RF		
CHECKED	RF		
MFG-APPR	ED		
APPROVED	ED		
DATE	12.02.24		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA DRAWING NO. D412-704-041 TITLE PEDAL ASSEMBLY SCALE SHEET 1 OF 1 REV. B PARTS			
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DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐								
Misidentified ☐	Past Due ☐	OTHER : _____							